

Method for manufacturing a combined fatty acid / lecithin ruminally protected feed supplement .

Abstract

A method for the preparation of a rumen stable bypass feed ingredient which is a fatty acid /crude lecithin calcium salt matrix derived from products of the alkali, caustic or "wet refining" processing of vegetable oils. In which, an admixture is formed of reactive ingredients consisting of:(a) a C._{sub.10} -C._{sub.22} or higher fatty acid mixture having greater than about 30 weight% of the C._{sub.10} -C._{sub.22} fatty acid content in the form of mixed vegetable fatty acids or fatty acid glycerides.(b) from about 10 to about 30% of the total admixture weight of calcium oxide.(c) 10 to about 45% crude lecithin derived from the alkali, caustic or wet refining processing of vegetable oils. Water is then added to the admixture in an amount between about 10% and about 100% by weight relative to the amount of calcium oxide. And the admixture is then heated to a temperature at which the fatty acid glycerides saponify to form fatty acid calcium salts in the presence of the crude lecithin. Both the calcium salts of fatty acids and crude

lecithin are enhanced with bypass feed qualities. Rumen bypass feed supplements are also disclosed, as well as ruminant feeds containing the feed supplements and processes for supplying the feed supplements to ruminant animals.